



DX NEWS

*The magazine of the
National Radio Club*

SINCE 1933

Volume 58, No. 30 - September 23, 1991 (ISSN 0737-1659)

Inside...

- 2.. AM Switch
- 4.. WNSV-510
- 4.. CPC Report

- 5.. DDXD-E
- 11.. DDXD-W
- 13.. IDXD
- 14.. TA/TP
- 17.. For Beginners

- 18.. For Beginners
- 19.. In the Beginning
- 21.. Musings
- 22.. In the Beginning
- 23.. New AM Log

From the Publisher ... Bridgeport '91 was great fun for those who attended, thanks to the hospitality of Bill, Brenda, and Erin Swiger. We're expecting a convention write-up from the peripatetic John Malicky in time for the next issue, and we'll also have some photos, space permitting. Our thanks to Bill and family for being such excellent hosts! Next year ... plan to trek to Iowa (tentatively Des Moines) for the NRC convention, to be hosted by Rick Dau and his recruits.

GTG's ... If you want a preview, Rick is hosting the 2nd annual HADX (Hawkeye Annual DX) GTG on Oct. 25-26 in Sioux City at the Howard Johnson's Motor Lodge [J(712) 277-9400 for reservations], starting at 3 pm Friday. Rick's planning station tours and Saturday morning door prizes. For more information, call Rick at (319) 338-3450.

Ray Arnada's long-running "Lower Deck" GTG will be held November 30 at 47 Burn Street, Acushnet, MA, starting around noon; all DX'ers are welcome.

Bruce Condit sent word of the Audio Engineering Society Convention October 4-8, at the NYC Hilton. Included are various seminars and a tour of WQXR's new facilities. For more info, call the AES at (212) 661-8528.

Target DX ... And speaking of Bruce (don't you love these segues?), he is now officially the "Target DX" column editor. You can send ideas for "smart" DX'ing at 34 Kessler Farm Drive, Apt. 566, Nashua, NH 03063-7144.

They joined ... Tom Bryant, Nashville, TN; Jerry Byers, Topeka, KS; James Fedor, Brewerton, NY; Peter Giacopelli KB2DY, Massapequa, NY; Clay Jackson, Fayetteville, TN; Paul LaFreniere, Grand Marais, MN; Howard Mortimer WB2ZWI, Baldwinville, NY; and Dave Rogers WA7ZYQ, St. Maries, ID. My apologies also for misspelling new LA member Al Buckalew's name recently.

Publication requirements ... For those of you who regularly send in pasted-up columns, please remember to leave two inches space at the top for the column header, which is an inch-and-a-half deep. Also, the normal column width is 3.75". If you type up material which doesn't fit that width (such as GYDXA), the full-page column width is 8". If your printer won't handle these widths, just send a 3.5" MS-DOS disk (ASCII text files only), a Commodore 64 ASCII file (on a 5.25" disk), Appleworks or Apple ASCII (on either 3.5" or 5.25" disks), or any Macintosh text file on a 3.5 disk and we'll format it here. At the moment, we do not have access to equipment which will convert files from other computers (such as 5.25" MS-DOS), so if any member would be able to do such conversions from other formats on

an occasional basis, please get in touch with the publisher. I also could use some help in typing up occasional contributions in the convertible formats - 3.5" ASCII MS-DOS, any Macintosh, C-64, or Apple.

DXChange ... No bids have been received yet for the old NREN equipment from the last DXN. I may acquire them and offer them at the next NRC auction: (none guaranteed to work) (for local pickup only). S-tube Newcomb AM receiver; 4 Utah 10" speakers in wooden cabinets; Hallcrafters CRX-1 FM (30-50 mHz) rx; two Gates amps (I think) - M-3638, with tubes; RCA CC-20A control; Spotmaster 500 AR rackmount player/recorder; Harris Cartape II; Gates M5546A Level Devil; Monitoradio, MCA 100H; GE phonomike pre-amp, UPX-003B, 4 watts, 4 Aiphone handsets and adapters, a 12-line phone switcher, and an Ampex 620 PA amp + speaker. Send your bids for any or all pieces to the publisher; all monies/donations will go directly to the non-profit KJTY, who now owns the facilities of WREN. 73

Partial DXN Schedule, Volume 59

#	Deadline	Pub. Date	#	Deadline	Pub. Date
1.	Sept. 27	Oct. 7	6.	Nov. 1	Nov. 11
2.	Oct. 4	Oct. 14	7.	Nov. 8	Nov. 18
3.	Oct. 11	Oct. 21	8.	Nov. 15	Nov. 25
4.	Oct. 18	Oct. 28	9.	Nov. 22	Dec. 2
5.	Oct. 25	Nov. 4	10.	Nov. 29	Dec. 9

DX Time Machine From the pages of DX News

50 years ago ... from the Sept. 6, 1941 DXN: The NRC Convention at Buffalo, NY, was attended by 42 members and friends. A donation was taken to send gifts to the two NRC members in the Army, Merlin Steen and Bill Stone. From the Sept. 20 DXN: DX programs for the NRC were to be broadcast in October from HJAP-1370, HJAR-1400, and PRE9-1320, as arranged by Steve Mann.

25 years ago ... from the Sept. 17, 1966 DXN: John Callahan stepped into the position of Executive Secretary, with Gordon Nelson taking over the IDXD editorship from John.

10 years ago ... from the Sept. 28, 1981 DXN: New members included George Hakiel, John R. Malicky, Bob Milne, Ben Peters, Bruce R. Kampe, David L. Spraker, Paul Zehr, and Bill Menke.

AM Switch

Jerry Starr

c/o WHOT Radio
4040 Simon Road
Youngstown, OH 44512-1320

Status changes in AM stations, supplied by the FCC and NRC members

CALL LETTER CHANGES

620	*New	NV	Winchester	KZTY
630	KDWB	MN	St. Paul	WDGY
650	*New	OR	Junction City	KZTU
700	KOJY	CA	Soledad	KSUR
730	WDKT	AL	Madison	WKMW
740	KISZ	CO	Cortez	KVFC
800	KNKK	UT	Brigham City	KSOS
860	*New	OR	Eugene	KZTZ
	*New	OR	Troutdale	KZTW
910	WTXN	AL	Pepperell	WDAK
930	WRVC	WV	Huntington	WTKZ
960	WFCL	MA	Fitchburg	WXLO
1090	WRBK	FL	Cantonment	WJBW
1110	KKLC	LA	Pineville	KTLD
1140	CISS	AB	Calgary	CFXX
1150	WORG	SC	Orangeburg	WJZS
1160	KFHM	TX	San Antonio	KVAR
1180	KDAN	AZ	Williams	KYET*
1200	WXRA	NY	North Syracuse	WNSS
1230	KAMJ	AZ	Phoenix	KISP
1260	WJOT	SC	Lake City	WVLC
1270	KZZX	NM	Alamogordo	KINN
1290	KESP	CA	Santa Barbara	KKSB
1370	WMNY	SC	Elloree	WORG
1390	WCSE	SC	Charleston	WXTC
1400	WKDY	SC	Spartanburg	WYVR
1410	KQIV	MN	Litchfield	KLFD*
1440	WFTQ	MA	Worcester	WVEI
	WBCM	MI	Bay City	WUNI
1490	WDXB	TN	Chattanooga	WJOC
1550	KITH	CA	Apple Valley	KAPL
	KFWW	KS	Winfield	KKLE
1570	WHPL	TN	Centerville	WNKX



Follow the Hawks with Jim Zabel
and Ed Podolak on the Palmer
Radio Sports Network!



KBLR	1490	BURLINGTON
KCIG	1600	CEDAR RAPIDS
KDTI	1370	DUBUQUE
KIGL	1300	MASON CITY
KICD	1840	SPENCER
KJTL	101.7	CORNING
KJAR	1180	OMAHA
KREZ	94.5	FORT DODGE
KOMIC	1570	WEBSTER CITY
KSCI	1360	SIOUX CITY
KUDO	103.9	SPIRIT LAKE
KVAL	1330	WATERLOO
KXCI	104.1	WIXON CITY
KWHO	104.5	DES MOINES
KWOC	1490	DAVENPORT
KWBZ	1970	ROCHESTER, MN
KTUR	107.1	DALLAS, TX

Notes on calls: 1180 KDAN request for KTRN was set aside and never used. Likewise, KQIV-1410 request for KLMC was set aside and they instead are asking for KLFD.

APPLICATIONS FOR NEW STATIONS

None

GRANTS FOR NEW STATIONS

1100 AZ Cave Creek: 25000/1000 U4 (see last issue)

APPLICATIONS FROM EXISTING FACILITIES

936	KSAI	MP	Saipan: reduce power to 5000 watts (this is for all the foreign DXers who read AMS, and yes this frequency is correct)
1040	KCBR	CO	Monument: reduce power to 1900 watts
1100	KZPM	CA	Bakersfield: reduce day power to 5000 watts, antenna to U2

1400	KAOK	LA	Lake Charles: reduce powers to 900/900 watts
1420	WXGM	VA	Gloucester: reduce power to 740 watts
1500	WSMX	NC	Winston-Salem: reduce power to 1000 watts

GRANTS TO EXISTING FACILITIES

970	WESO	MA	Southbridge: reduce day power to 500 watts, add 500 watts nights, antenna to U3
1130	KBMR	ND	Bismarck: changes in antenna system
1200	WAGE	VA	Leesburg: day power to 10000 watts
1240	WULA	AL	Eufaula: reduce powers to 600/600 watts

OTHERNESS

610	KYJC	OR	Medford: briefly silent, is now ON THE AIR
710	KNUS	CO	Denver: application for 9000 watts day power has been rescinded
740	WLVG	MA	 Webster City Cambridge: silent station is ON THE AIR (one of our info sources has begun listing this station in Needham, MA but according to the station they are still in Cambridge and ID only as "Cambridge-Boston")
780	CFDR	NS	Dartmouth: station is now here ex-790 kHz
820	WXJZ	IL	Chicago: silent station set to return 9/91
830	KBUC	TX	Cibolo: station is SILENT
880	KWIP	OR	Dallas: silent station is ON THE AIR
910	WQZZ	TN	Columbia: silent as WCMG, is now ON THE AIR
1010	KDLA	LA	De Ridder: station is SILENT
1190	KJLA	MO	Kansas City: silent station is ON THE AIR as Mayor Cleaver pulled the ceremonial switch on 8-29, had been off since 6-90
1230	WFOM	GA	Marietta: station is SILENT
	KKUL	MT	Hardin: station is SILENT
1260	WTKL	LA	Baton Rouge: station is SILENT
1290	KKSB	CA	Santa Barbara: silent as KESP, is ON THE AIR
	WXKL	NC	Sanford: silent station has been sold, is expected to return to the air
1310	WGSA	PA	Ephrata: silent station returned to the air briefly relaying WAGO-1240 in Reading but went SILENT again in May
1360	KDXI	LA	Mansfield: station is SILENT
1400	WYYR	SC	Spartanburg: silent as WKDY since 1989, should be ON THE AIR by the time this reaches you
1410	WLVV	AL	Mobile: silent as WMML is now ON THE AIR
	WSKN	AL	Prattville: silent as WRNB is now ON THE AIR
1440	WWEI	MA	Worcester ex-WFTQ now relays WEEI-590 Boston
1450	WDSG	TN	Dyersburg: silent station has been purchased by owner of WTRO-1330 in Dyersburg who will surrendered his license for WTRO when the sale is complete, WTRO will be deleted so QSL it SOON!
1460	WPRW	VA	Manassas: silent station returned to the air for ONE DAY last month, probably to dry out the transmitter, has been SILENT ever since
1480	KTGN	WA	Lakewood: first, lets review. KTGN operated on 1480 Monday thru Saturday and shared 1480 with KDFL which operated Sundays only. We hope you verified this unique combination since it

is no more. KTGN is now SILENT and KDFL now operates seven days a week. We believe this arrangement is permanent.

1490	WOP1	TN	Bristol: becomes the second station to relay WKPT-1400 (along with WKTP)
1510	KIDZ	MO	Independence: station went SILENT 8-15-9
	WKRU	SC	Burnettown: station is SILENT
1530	KGTN	TX	Creedmore: station is SILENT
1550	KKLE	KS	Winfield: silent station should be ON THE AIR by the time this reaches you, was bought by the owner of KLEY-1130 Wellington, KS who was granted a waiver of the FCC duopoly rules since KKLE and KLEY have a large overlap in coverage.



CEDARWOOD
Waukon

THANKS: RON MUSCO, TOM DIMEO, MARC DeLORENZO, ALAN MERRIMAN, DANA YEOMANS, ED McDONALD and M STREET JOURNAL

73 and Good DX, Jerry & BKF Jerry Starr & Buffalo K. Foonman

PS: It was great to see many of you at the Convention!

WNSV510 ... by Wayne Heinen

The Colorado Department of Transportation has initiated a new TIS system in the Denver Metro area. Currently, the system includes some transmitters up and running and some just testing. The system is being installed by Information Station Specialists of Zeeland MI and uses a digital audio message loop.

The Denver Metro TIS is modeled after CALTRAN's system of linked TIS transmitters. There are 6 separate 10 watt transmitters in the Metro area and one in operation in Pueblo. The Metro transmitters are in the following locations:

- | | |
|-----------------------|----------------------------|
| 1. I-70 @ Gunclub Rd. | 4. I-25 @ Lincoln Avenue |
| 2. I-76 @ Barr Lake | 5. I-70 @ Lookout Mountain |
| 3. I-25 @ 120th | 6. CO 36 @ Wadsworth |

This system is designed to alert travellers entering the Denver Metro area of heavy road construction and possible delays as they travel through the city. The intersection of I-70 and I-25, affectionately known as the "Mouse Trap", is currently the big topic of discussion as it is being totally rebuilt. Other projects are affecting most of the Interstate system in Denver.

Dan Hopkins of the Colorado Department of Transportation informed me that the final plan was to have all six transmitters up and running shortly. The long term goal is to have each transmitter programmed with the information of interest to both the in bound and outbound travellers at each major point. These transmitters are not a synchronous operation. Although they can be operated that way, each transmitter will be programmed with the information for the particular route. For example, the transmitter at I-25 and Lincoln Avenue will have information on the south bound conditions to Colorado Springs as well as the in-bound information heading north into the city. The Pueblo transmitter is carrying tourism information as there is currently no major construction on the Interstate system. This was verified by Jeff Tynan and John Wilkins on a recent trip through that area.

The end result for local DX'ers is a new graveyard frequency! Locally 1610 is not available for TIS operations because of KRXY-1600 in Lakewood. In addition to WMSU510, Denver has the 50 watt Stapleton Airport TIS and a 10 watt TIS at Cherry Creek State Recreation area. This will now give us 8 metro transmitters on 530.

Reports to:
Colorado Dept. of Transportation
Mr Dan Hopkins
4201 E. Arkansas Ave
Denver, CO 80222

The 1990-91 NRC CPC Report ... by Jeff Tynan

The 1990-91 NRC CPC season had 33 tests arranged, of which 30 were confirmed "on" by at least one member of the NRC. A total of 266 letters were mailed by the CPC Machine for a return rate of 12.41%. In 1990-91 NRC'ers contributed \$180.00. \$161.21 was spent on letters and postage for confirmation letters and in some cases taped ID's. The carry over to 1991-92 is \$18.79.

In addition to these expenses the National Radio Club treasury reimbursed the CPC Machine \$54.35 for expenses to publicize DX Tests through *Monitoring Times* and Glenn Hauser's "World of Radio" and for numerous follow-up phone calls to set up some of the last-minute tests.

Please note that Jeff Tynan has volunteered to

chair up the Courtesy Program Committee. Jeff has done most of the work on the program this past year and I know he'll continue to work very hard to continue the NRC's tradition of having a continuing active CPC program. I have enjoyed my involvement with bringing the Courtesy Program Committee back to the standards that we enjoyed in the 1960's and will continue with some-behind-the-scenes work. I would like to thank all who have supported the CPC with stamps, money and target lists, and I have truly enjoyed the compliments and encouragement of my fellow NRC'ers.

Please send all contributions and target lists to Jeff Tynan - 10359 Severance Drive - Parker, CO 80134-9104. 73 Wayne Heinen

Domestic DX Digest - East

William Hale

734 Burleson
San Marcos, TX 78666-4335

DX Catches in the Eastern U. S. and Canada, with 24-hr. ELT

MEDIUM WAVE RAMBLINGS

■ Let's all welcome new NRC'er Tony Bernhoffer of Toledo, Ohio, whose loggings appear in this issue for the first time. Thanks for your letter, Tony. And here's hoping we here, hear more from your DX vantage point in the Buckeye State. And a BIG "hello" to Jack Horner of Lancaster, PA, who recently rejoined the NRC after an absence of 52 years. He comments that things aren't like they were in the 30s. I guess not. Especially penny post cards, hi. Welcome Back, Jack. Hope to hear more of your DX catches from Pennsylvania Dutch country. Betcha your friends call you "Little Jack Horner", huh? And I want to extend a special "Thank You" to Charles Reh of Leamington, Ontario. Chuck has reported in every issue for the past two years! Plus there were reports from him in the issues preceding Volume 57, but we weren't counting then. Keep 'em coming Chuck. Even with the current Canadian postal strike, the Leamington Loggings get through.

■ While visiting the Maine coast, Dave Evans heard WLAM-1470 Lewiston and WLAM-870 Gorham simulcasting. Dave speculates that 870 is the repeater as 1470 has been around for ages. Both transmit in stereo with seemingly narrow North-South patterns, as it's difficult to hear the other's signal when in the area of either one. Yet they are only about 40 miles apart. They use the news team from WMTW-TV Mount Washington (studios in Auburn-Lewiston) for local newscasts. Also, Dave again uses QC as the abbreviation for Quebec, as the controversy rages on...hi. We'll continue to use the NRC "standard" of PQ.

■ Now that our schedule is into the weekly mode, my deadlines are Saturday's mail.
■ Since we begin a new Volume of DX News next issue, here's my yearly reminder on the guidelines for reporting to DDXD-E. Nothing fancy. Just a few rules to keep things in order and easy for me and everyone else to figure out what's going on. Ready?

- 1) Use only one side of the paper.
- 2) Make your loggings look, as close as possible, like those in DX News, format-wise. Frequency, call, State/Prov, City, date, time, and what was heard, in that order. Except in the case of informational news (Special category), date and time are mandatory for inclusion. And if you can't look up the city/state/call letters, I can't either.
- 3) Divide the loggings into the various categories, such as Special, Midnight to 0800, etc. Then keep the frequencies in order. Then state order, and finally cities. You'll notice that's how I sort within the column.
- 4) Report in what we call "Eastern Listening Time". This is always the same as either Eastern Standard or Eastern Daylight, whichever is in effect. This is done for the sake of standardization.
- 5) Designate the time in a 24-hour clock: 8:45 AM = 0845; 11:10 PM = 2310. Midnight is 2400 if used when going into midnight (2345-2400), 0000 coming out of midnight (0000-0030). Central Time Zoners! Remember to add a day to post-midnight ELT loggings.
- 6) True DX only, please. A station heard on a regular basis is not DX. Perform several bandscans, three or four during 1000-1400 hours, and three or four well into your after-dark nighttime. Those stations which are regularly heard are not DX. Do not report these, unless one is noted with something out of the ordinary like a new network, different schedule, off the air, etc. That puts them into the Special category.
- 7) Report your loggings in a timely manner. Those which will be older than six weeks at date of publication will be weeded out. Mail service cannot be counted on to deliver your letter mailed on Thursday to get here by my Saturday deadlines. If you only have one or two items for the column and don't want to "waste a piece of paper and an envelope", jot them on a postcard. I get lots of those. As always, special circumstances will be considered due to mail strikes, lost letters, etc.
- 8) Print neatly, or type. If I can't read 'em, I won't input them into the column.
- 9) Observe all rules. In doing so, you'll make my job that much easier. Remember, you send in only one set of loggings, and many weeks I receive 25 or more letters just like yours. For complying with these requests, in advance I give you my thanks.
- With football now in full swing, listen for those Friday and Saturday night high school games all over the place!
- Who said MW DX takes a vacation in the Summer? Take a look ...

SPECIAL

530 CIAO ON BRAMPTON - hr testing here, even before CJFT leaves the channel (DT-ON via REH-ON)

550 KTSA TX SAN ANTONIO - now carries **Larry King** 2300-0200 with repeats from 0200-0500, plus **Best of King** on weekends (JB-TX)

830 KBUK TX CIBOLO - back on the air; seems the financial troubles 'tween owner and operator are solved...at least for now (GK-TX)

890 KVOZ TX LAREDO - 9/1 as of today, simulcasts with KOYE 94.9 and is now 24 hours; a frequent slogan is **Y95**, economics bit the AM in the tail [Ed.-TX]

900 WCOR TN LEBANON - 6/26 1223 OFF, probably permanent. will keep an ear on this one; they'd threatened to go off in January, but got a temporary shot in the arm from their bank (DS-TN)

910 WQZZ TN COLUMBIA - 7/1 -1700 XLNT while driving thru Columbia; new CLs for ex: WCMG Lawrenceburg with black GOS format (DS-TN)

1120 WCGM TN MARYVILLE - silent since May; they got way behind (\$3400) on their studio rent and building is now a baseball card shop (SF-TN)

1190 KJLA MO KANSAS CITY - 8/29 1919 Mayor Cleaver threw the switch reactivating after lightning and flood caused silence since 5/90; now in \$ with NOS/JAZ; three program periods per diem off satellite; presume still U2 5000/1000 with broad lobe west at night + new ownership (JEL-MO)

1200 WOAI TX SAN ANTONIO - 8/18 & 8/25 0400 signed off both Sunday mornings [Sunday? mornings?? - Ed.], so maybe they still have a weekly SP (SF-TN) [I dunno about these guys. But I have heard Sports Final MMs from 0600-0700 and their Sports Director Jay Howard told me they carried it from Midnight to 5 AM (local) on Monday mornings, and on Sunday mornings they carry *America on the Road* at 0500 local - Ed.]

KEMW / **KWLO** AM 1330 Waterloo

1360 WDRC CT HARTFORD - re: LK-ON's logging of 5/22, last I hr their FM was WDRC-FM (102.9) (DS-TN)

1410 WLVV AL MOBILE - 9/2 0655 sign-on by male, no SSB; was silent as WMML back on the air (REH-ON)

1440 WROK IL ROCKFORD - now US 5000 270, per verie letter; also [get the white-out out, gang, hi - Ed.] other Log changes are as follows: verie signer: David M. Hallow (KE9BD), ACE; address is: Nolte Communications Inc., 3901 Brendenwood Road/P.O. Box 6186, Rockford, IL 61125; phone: 815-399-2233 (DS-TN)

1480 KCHL TX SAN ANTONIO - the parent company of KCHL & KMMX-FM (106.7) has filed for Chapter 11 of the U.S. Bankruptcy Code; will stay on the air while things are sorted out (JB-TX)

1490 WECM FL MILTON - 8/21 & 8/29 midnight with live TC and legal ID; silent station is back on the air (SF-TN)

KNOW TX AUSTIN - now carries the **5PM KVUE Action News** (Channel 24) [Ed.-TX]

1500 KBRN TX BOERNE - off the air; seems a 4-foot Bullsnake got into the transmitter, shorted out the works, and did \$15,000 in damage; station will be off the air until a new transmitter is procured (JB-TX) [a KENS-TV 5 *Eyewitness News* report said they'd be back on within a couple of months or so - Ed.]

1550 WAAJ AL HUNTSVILLE - although recently reported as OFF, heard on 8/10 while in Huntsville with announcement by a preacher saying that the station relied on listeners' donations, and since funds were low, the schedule was sporadic (DH-AL)

1570 KVLG TX LA GRANGE - now carries the **5PM KVUE Action News** (Channel 24 Austin) [Ed.-TX]

UNIDS AND UNID HELP

840 UNID ?? - 9/2 2002-2029 w/OLD/C&W with no annets or ads, just mx; gone without fanfare; appeared to be east of here under/over WOAJ [you mean WHAS, don't you? - Ed.]; any ideas? (JEL-AR) [If you were looped E-W, it may have been KWPM West Point, NE...their format is OLD/C&W - Ed.]

1250 UNID ?? - 8/17 2140 poor w/East Indian or Mid-Eastern mx; no talk (SA-ON)

1260 WWJQ MI or WCHV WV - either of these may be SB-MI's unID of 8/1 (Issue 29); both towns have FMers with Q in the CL and are near 95 mHz; hope this helps you, Scott (MH-NE)

1340 UNID ?? - 7/28 2140-2210 gave time as *Five minutes after six* at 2105, played Indian mx, ads, news of India; faint program, I made a tape and played it until I got enough details; don't think it was Radio Canada Int'l (TB-OH)

1360 UNID ?? - 8/13 0813 0635 fair with *Business Radio ID*, nx and stock market report (SA-ON)

1460 UNID ?? - 8/13 0709 poor with *Penn State* football talk & ad for *Rock Springs Fair* (SA-ON)

1560 UNID ?? - 7/1 0240-0305+ very weak with occasional fadeups with *Sports Final Talk*, MBS Nx at 0300 (of course, faded down right after the nx, where their local slogan would have gone); WQXR and WPAD both in regular MM SP; probably WSLA, but I'd love to think KPMC! (DS-TN)

1570 WCLE TN CLEVELAND - is doubtless *Rick Dan's* unID from Issue 23; Cleveland indeed has a *VIP Limousine* with a 479 telephone prefix (SF-TN)

1590 UNID ?? - 8/26 0445-0500 somebody in SS, very strong dominating channel with automated (satellite-delivered) *American ROK* and mentions of *Radio Capital*, voice-overs by male with definite Latin, not Mexican or Tejano accent [Ed.-TX]



106.7 KOKZ Waterloo

1070 WFLI

DX AND EQUIPMENT TESTS

TN LOOKOUT MOUNTAIN - 8/21 0220 with test pgm, quite strong over/under CHOK; REL mx with frequent CL IDs: *Testing on 50,000 daytime watts* (JH-PA)

MIDNIGHT TO 0800 HOURS ELT

FL CYPRESS GARDENS - 8/26 0300 CL ID followed by nx, ad for Garden State Life Insurance Company; at 0305 *Weather from Orlando Airport* (JH-PA)

VA RICHLANDS - 8/20 0215+ strong, with *Oldies Channel*, PSA & local mentions; after local WWCS signs off at 2100, this mixes with WDMV/WGTO on occasion/CJSB/Cuba; in/out with Cuba (JM-PA)

IL ORANGE PARK - 9/1 0600 good over WAME's choral SSB/Cuban with brief sign-on statement; FL #145 (SF-TN)

NY BUFFALO - 8/5 0726-0750 IDing as *All News Radio* (TB-OH)

VT BURLINGTON - 8/12 0602 fair with ABC Nx, WVMT Sports, wx, oldies mx on *Classic Hits WVMT* (SA-ON)

GA SAVANNAH - 8/24 positive CL IDs at 0400 & 0405; thought it was WMAL which usually dominates this frequency; 0405 *Bruce Williams Talk Net*; WMAL faintly in background (JH-PA)

ON CHATHAM - 8/9 0036-0113 1960s and 1970s *ROK OLD; Solid Gold Weekend* (TB-OH)

PE CHARLOTTETOWN - 8/24 strong in WGN null; POP mx with positive ID at 0455 & again at 0500 followed by Canadian nx (JH-PA)

NY WATERTOWN - 8/12 0550 good w/oldies mx, WTNY IDs (SA-ON)

PQ VERDUN - 8/16 0015 weak, in and out of CJBC-860 splash with legal ID, ads in FF for events in Montreal, then - FF songs (DE-KY)

NY BOONEVILLE - 8/18 0710 poor with C&W mx, ads for Northern NY towns in their area (SA-ON)

IN WEST LAFAYETTE - 7/30 0049-0104 w/CLA piano solo, sign-off; poor; have wanted this for a long time (DT-ON)

NY KINGSTON - 8/15 0630 good with local & nat'l nx, local ads for Kingston car dealers; *Newswatch 92* slogan (SA-ON)

NY LAKE PLACID - 8/15 0620 poor w/lite ROK mx, local annets (SA-ON)

FL MIAMI - 8/26 0600-0615 hr sign-on including full ID saying ...serving Miami & Fort Lauderdale, numerous local mentions & local ads including one for an Oldsmobile dealer (DH-AL)

ON TORONTO - 8/7 0530-0600 all oldies, rock mx of the 60s & 70s (TB-OH)

PQ QUEBEC CITY - 8/13 0618 poor w/FF talk & FF ROK mx (SA-ON)

NY PLATTSBURG - 8/13 0622 fair with local wx - lite EZ mx (SA-ON)

PA SUNBURY - 8/15 0640 poor with 1070 WKOK ID and mention of CBS Nx on the hour; faded away (SA-ON)

MA PITTSFIELD - 8/15 0700 poor with 1110 WUHN ID - locally-produced nx; oldies mx (SA-ON)

LA SHREVEPORT - 8/18 0300-0400 with a C&W variety show for

WNEW truckers (TB-OH)
NY NEW YORK - 8/12 0512 strong with **WNEW Eleven-three-of ID** - nx (SA-ON)

1160 WJJD **IL CHICAGO** - 8/18 0402-0435 BBD, *Music Until Dawn* pgm (TB-OH)

1180 WHAM **NY ROCHESTER** - 8/18 0500-0542 *News-Talk* radio; news, analysis & commentary (TB-OH)

1220 CJSS **ON CORNWALL** - 8/10 0745 strong w/**1220 CJSS ID** & local annct (SA-ON)

1240 WDNE **WV ELKINS** - 8/17 0626-0642 good in/out of news & **WTAE-1250** null with C&W mx, time & temp check, local ads, **PSA**, & *Metro News Sports*; picked up v/l via personal visit on 8/29! (JM-PA)

1250 KIKC **MT FORSYTH** - 9/1 0200 ID after C&W mx (MH-NE)

1270 CJTN **ON TRENTON** - 8/19 0554 poor with **CJTN ID**, local annct (SA-ON)

1300 WQBK **NY RENSSELAER** - 8/19 0552 fair with *News-Talk* radio **1300 WQBK** - a pgm with **Julia Child** (SA-ON)

1340 WNHC **CT NEW HAVEN** - 9/2 0120 up w/**ID**, *Light Rhythms* **WNHC**, UC mx; local **WBCR** on its nightly SP 0000-0600 (HJJH-PA)

1400 CHVR **ON RENFREW** - 8/13 0650 fair with *Valley Radio* IDs || 1490 & 1350; ex:**CHUR** (SA-ON)

1410 WHLN **KY HARLAN** - 7/29 0605 fair with wx including temperature in downtown Harlan, **WHLN** SID & back to mx (DS-TN)

WNCQ **NY WATERTOWN** - 8/13 0657 poor with C&W mx, **WNCQ ID**, local ads (SA-ON)

1460 WBUC **WV BUCKHANNON** - 8/25 0700 good, just over semi-local **WMBA** with full-power sign-on, then faded; played tape for owner on 8/29 visit (JM-PA)

1480 WZRC **NY NEW YORK** - 8/8 0014-0035 with **ROK, AM 1480 WZRC**; under **WBBC/unID**, no sign of **CKAN** (DT-ON)

1490 WFXY **KY MIDDLESBORO** - 8/23 0300 readable with *Oldies for the Tri-State* and legal ID; KY #130 (SF-TN)

1500 WFIF **CT MILFORD** - 8/11 0656 good with **REL** mx, **WFIF Weather Report** (SA-ON)

1510 WSSH **MA BOSTON** - 8/11 0650 fair with SS talk & mx, man in EE *This is WSSH Boston* ID at 0654 (SA-ON)

1550 WLWX **CT BLOOMFIELD** - 8/13 0610 fair with **REL** pgms (SA-ON)

1560 WLJA **GA ELLIJAY** - 7/29 0600 poor with full-data sign-on (DS-TN)

1570 WFLR **NY DUNDEE** - 8/19 0617 poor with local mx & sports, **WFLR ID**; over/under **CKLM** (SA-ON)

WPTW **OH PIQUA** - 8/18 0008-0031 with **Reds vs. Padres** **MLB**, end-of-game ID **Stereo 1570**, **WPTW**; QRM from unID with C&W; poor; listed as carrying BB on FM, and AM off at LSS...must have changed! (DT-ON)

1580 WOXR **AL OXFORD** - 9/1 0000 sign-off; new (MH-NE)

KCWW **AZ TEMPE** - 8/24 C&W mx with **CL ID** at 0510; not very strong, but listenable; hrld ...*The time is 3:12 AM and here is Dolly Parton*; the time checks at MT is **ELT** minus 2 (JH-PA)

KBLA **CA SANTA MONICA** - 8/30 0557 with business talk - ad for **Precious Metal Investments** followed by 0600 ID **KBLA Santa Monica-Los Angeles** - ABC Nx (REH-ON)

1590 WQQW **CT WATERBURY** - 8/11 0639 fair w/**1590 WQQW ID** - NOS mx (SA-ON)

WBHN **NC BRYSON CITY** - 7/29 0559 fair with brief sign-on mentioning 500 watts, - ABC Nx (DS-TN)

1600 WIXY **MA EAST LONGMEADOW** - 8/11 0630 good w/NOS mx, **WIXY ID** (SA-ON)

WMCR **NY ONEIDA** - 8/19 0607 poor with **WMCR ID**, then - PSAs (SA-ON)

0800 TO 1600 HOURS ELT

1050 WYBG **NY MASSENA** - 8/10 1032 good with light **ROK**, **IDs** as *The Seaway Valley* and **YBC** (SA-ON)

1090 WFCV **IN FORT WAYNE** - 8/5 0830-0900 Evangelical radio with *Turning Point* pgm with **Dr. David Jeremiah** (TB-OH)

1340 WMSA **NY MASSENA** - 8/10 0803 good with mx, **NY Lottery** numbers, local ads (SA-ON)

1350 CHVR **ON PEMBROKE** - 8/10 0810 good with local mx, sports, local ads for Pembroke & Petawawa; *Valley Radio* **CHVR** IDs (SA-ON)

CJLM **PQ JOLIETTE** - 8/10 0815 fair with **CJLM ID** sung in FF; lite **ROK** in

NY OGDENSBURG - 8/10 0830 fair with NBC Sports, **FSR** and **Full Service Radio** IDs, local ads (SA-ON)

NY POTSDAM - 8/9 0913 good with local pgm of nx, obituaries, announcements and reviews of shows (SA-ON)

1600 TO 2400 HOURS ELT

1400 WSLB **Ottumwa**

1470 WPDM **KBIZ-AM**

500 CFCF

630 CJET

830 CFJR

940 WGRP

970 WAVG

990 WIVK

CKIS

1040 CFZZ

1050 WEVD

1070 CBA

CHOK

1120 KMOX

1160 WAMB

1260 WEZE

1280 KNBY

WWOK

WONW

1300 KFLO

WKXI

1310 KMBS

1320 WHIS

1330 KVOL

1340 WENT

1370 WALK

CKOD

1390 KXSS

1450 WDAD

1460 WACO

1490 WFKY

WAZL

PA MONTREAL - 8/10 1628 fair with *CFCF Weather & Magic Moments CFCF 600 Radio Montreal*; **EZL** mx (SA-ON)

ON SMITHS FALLS - 8/10 1640 strong with light **ROK** mx, **Beckwith Baseball Tournament** ad, **C-Jet** IDs (SA-ON)

ON BROCKVILLE - 8/10 1653 good with lite **ROK**, new & oldies; **CFJR** ID, *Classic Hits JR* ID (SA-ON)

PA GREENVILLE - 7/31 2148-2200 end of local BB, mentioning *Fireman's Fairgrounds near Meadville*, ad for car dealer, (?) *Sales and Service*; mention of **WGRP** in IDs; sign-off; poor (DT-ON)

KY LOUISVILLE - 8/6 2300-2330 *Hits of the 40s, 50s and 60s*, extreme co-channel QRM (TB-OH)

TN KNOXVILLE - 8/30 2212 very strong with C&W mx and IDs (MH-NE)

PQ MONTREAL - 8/18 2230 fighting it out with **WRMM** and losing most of the time, but got a clear *Oldies 990* (DE-NY)

PQ MONTREAL - 8/10 1611 fair with **FF ROK** mx, lots of local ads in FF (SA-ON)

NY NEW YORK - 8/17 2055 good with **NOS** mx & *New York's best Saturday night program* (SA-ON)

NB MONCTON - 8/17 2057 good with *Finkleman's 45s* pgm & *This is CBC Radio* network ID (SA-ON)

ON SARNIA - 8/10 2114-2139 with *Jukebox Saturday Night* oldies rock mx pgm; shared channel with **WIBC**; have details of both pgms (TB-OH)

MO ST. LOUIS - 8/10 2329-0012 w/*Sports Open Line* talk show with guest **Rob Reims** from *USA Today* (TB-OH)

TN DONELSON - 9/1 2300 fair with **KSL QRM**; ID & **MBS Nx** (MH-NE)

MA BOSTON - 8/17 2200 good with **WEZE Boston ID** in EE, then - FF talk (SA-ON)

AR NEWPORT - 8/30 2223 fair w/**OLD & ID** during promo; new (MH-NE)

IN EVANSVILLE - 8/4 2248-2320 with **EZL** pop mx from the 50s, 60s, 70s; giving heavy QRM to **WONW-OH** (TB-OH)

OH DEFIANCE - 8/4 2248-2320 with C&W mx; heavy QRM from **WWOK-IN** (TB-OH)

LA SHREVEPORT - 8/30 2231 mention of *Beautiful downtown Shreveport* in ad; new (MH-NE)

MS JACKSON - 8/31 2216 ID and local ads (MH-NE)

LA WEST MONROE - 8/30 2247 ads/ID, then **HS FB game**; new (MH-NE)

WV BLUEFIELD - 9/2 2200 ID and mx; new (MH-NE)

LA LAFAYETTE - 9/1 2200 *TalkNet*, then **HS FB game**; new (MH-NE)

NY GLOVERSVILLE - 8/9 2045-2100 *Red Sox-Blue Jays* BB pbp, local ads for Ford dealer & supermarket on Main Street; promo for sports pgms; over/under unID with BB; poor (DT-ON)

NY PATCHOGUE - 8/28 2015 soft **ROK** mx || **WALK-FM**; fair signal where **WELV** or **WMCN** usually dominate (HJJH-PA)

PQ VALLEYFIELD - 8/9 1655 good with **EE & FF ROK** mx, ads in FF, **CKOD** ID in FF (SA-ON)

MN WAITE PARK - 8/31 2200 **NOS**, then ID followed by **SNN Nx** (MH-NE)

PA INDIANA - 8/23 2242 mention of downtown Indiana and **Variety Delicatessen** ad (HJJH-PA)

TX WACO - 9/1 2257 ID || **FM**, then C&W Top 30 (MH-NE)

KY FRANKFORT - 8/7 2116-2151 *Reds-Cardinals* BB pbp, local ad for car repair, *Grange Insurance*; 2157 ad for *Jeep-Cherokee* dealer in Lawrenceburg; poor, took over from **WAZL** (DT-ON)

PA HAZELTON - 8/7 2053-2111 *Phillies vs Pirates* BB pbp, ad for *Farmer's Dairy* at 32nd & North Church in Hazelton, PSA for Social Security; over/under unID taken over by **WFKY** (DT-ON)

	CHUR	ON ARNPRIOR - 8/12 1820 poor - fair with <i>CHUR Valley Radio</i> ; mix of lite ROK mx, local ads, mentions of Ottawa (SA-ON)
1540	KXEL	IA WATERLOO - 8/18 2312-0016 evangelical: Rev. R.W. Sembach, Rev. David Carroll country-GOS mx; strong with extreme CHIN QRM (TB-OH)
	CHIN	ON TORONTO - 8/18 2340-0008 with reggae mx for Caribbean Nationals living in Toronto; hvy co-channel QRM from KXEL (TB-OH)
1570	CKLM	PQ MONTREAL - 8/9 1640 fair with CL ID in FF - FF & EE ROK mx (SA-ON)
1580	WWOF	NC CAMP LEJEUNE - 9/1, 9/2 2000 weak sign-off both nights; this gets thru on the worst of nights as 9/2 seemed very auroral (HJH-PA)
	WCRO	PA JOHNSTOWN - and
	WRDD	PA EBENSBORO - 8/1 2055-2120 REL with no ID; broke through suddenly and strong several times (as if day power just turned on) 8/7 2000-2100 less powerful with syndicated REL and GOS mx, ID at 2100 as WCRO Johnstown ; could WRDD be simul w/ WCRO as towns not that far apart? (DT-ON) [Dunno. Your report on this was kind of cryptic. Maybe a member from that part of PA will help out -Ed.]
1590	KQXK	AR SPRINGDALE - 9/1 2106 with Springdale Bulldogs FB (MH-NE)
	WQQW	CT WATERBURY - 7/17 2116-2123 promo, mentioning ...on AM Stereo WQQW , wx, NOS Please, Mr. Sun; almost alone on frequency...no WAKR! (DT-ON)

Thanks to all these REPORTERS for a fine turnout!

TB-OH	TONY BERNHOFER//Toledo, OH//Pioneer SK 550 Boom Box + homemade 2' BCB loop (X2)
JB-TX	JIM BOEHM//San Antonio, TX//
DT-ON	DON TRELFFORD//Scarborough, ON//
DS-TN	DOUG SMITH, W9WI/4/Nashville, TN//TS-680 + Palomar Loop
GK-1X	GARY KETTLER//Austin, TX//via landline
DH-AL	DALE HAMM/Birmingham, AL//Superadio II
DE-XX	DAVE EVANS/Brossard, PQ DXing at: KY near Greenup, KY; NY = Utica, NY//DX-440, TM-1525, SRFA-18 Walkman
JH-PA	JACK HORNER/Lancaster, PA//ICF-2010 barefoot
SA-ON	SHAWN AXELROD//vacationing in Orleans, ON//ICF-22 barefoot
MH-NE	MIKE HAWK, NOOSY//Omaha, NE/R-1000, HQ-180AC, 2' loop, CT-3000 tape deck
SF-TN	STEVE FRANCIS//Alcoa, TN//TRF
JEL-XX	J.E. LEWIS/MO = Kansas City, MO or AR = Fayetteville, AR on holiday//Grundig Satellit 400, RW Shotgun + Select-A-Tenna
HJH-PA	HARRY HAYES//Wilkes-Barre, PA//Superadio + SM-2
REH-ON	CHARLES REH/Leamington, ON//R-390A + Sanscrito Loop + TR-3000 open reel tape recorder/report via phone due to Canadian postal strike
JM-PA	JOHN MALICKY//Pittsburgh, PA//Superadio II
Except this guy...	
Ed.-TX	Ye Editor, NSSZC/San Marcos, TX//Delco ETR, Superadio, or sensitive filings

Graveyard Achievements Update

1340 kHz:	WNCO OH	Ashland	Steve Francis	Alcoa, TN	359
1400 kHz:					
WVNF GA	Alpharetta	Steve Francis	Alcoa, TN	120	
WSGC	Elberton	Steve Francis	Alcoa	129	
WWIN MD	Baltimore	Steve Francis	Alcoa	469	
WWSF PA	Loretto	Steve Francis	Alcoa	434	
WHHV VA	Hillsville	Steve Francis	Alcoa	190	
1450 kHz:					
WBHF GA	Cartersville	Steve Francis	Alcoa, TN	123	
WLHS MI	Port Huron	Steve Francis	Alcoa	503	
WDAD PA	Indiana	Steve Francis	Alcoa	445	
WJPA	Washington	Steve Francis	Alcoa	364	
1490 kHz:					
KARV AR	Russellville	Steve Francis	Alcoa, TN	519	
WTTB FL	Vero Beach	Steve Francis	Alcoa	600	

WNDU IN	South Bend	Steve Francis	Alcoa
KJIN LA	Houma	Steve Francis	Alcoa
WJFL MS	Vicksburg	Steve Francis	Alcoa
WMOAOH	Marietta	Steve Francis	Alcoa
WSIB SC	Beaufort	Steve Francis	Alcoa
KDKO TX	Tyler	Steve Francis	Alcoa
WIGM WI	Medford	Steve Francis	Alcoa



547
584
462
284
416
690
728

ABBREVIATIONS AND SPECIAL SYMBOLS USED IN DDXD-E

|| parallel with or to ~ to or into ~ often the hour AC:Adult contemporary AP:Associated Press BB:Big band BRN:Business Radio Net C&W:country & western CHR:contemporary hit radio CID:code ID CL:call letter ContChr:contemporary Christian EZL:easy listening EB:English FF:French GOS:gospel IRN:Interstate Radio Net j:jungle LSR:local sunrise LSS:local sunset MLB:Major League Baseball mx:music nx:news NPR:National Public Radio OC:Open carrier phb:play-by-play PSRA:pre-sunrise authority PSSA:post-sunset authority QR:M:man-made interference QRN:natural interference QTH:location REL:religious ROK:rock 'n' roll RS:regular schedule \$:stereo SID:singing ID SRS:sunrise skip SS:Spanish SSB:Star Spangled Banner SSS:sunset skip TC:time check TT:test tones UC:urban contemporary UPI:United Press International wx:weather

73, Bill

Domestic DX Digest - West	Wayne Heinen 4131 S. Andes Way Aurora, CO 80013-3831 FidoNet: 104/108 (303) 699-6335 (prepaid only)
DX Catches in the Western U. S. and Canada, with 24-hr. ELT	

Thought I'd just review the rules for DDXD-W. Contributions should be legible and may be submitted in any order as the computer does all the sorting. Tips should be timely and of major interest. Please try to stay away from reports of the easily-heard non-DX type stuff

From Jack Woods concerning 650-KRDX & J110-KRCX. These two are // and run SS Mex programs ID is generally "KRCX Sacramento Roseville Stockton and KRDX Rancho Cordova and all of Northern California." Thanks for the update

SPECIAL Interest

610 KYJC OR Medford	550 KMVI HI Wailuku 8/14 0920 Fair to Good w/Hawaiian Mx, 55 KMVI ID's. (TH-SDB)
670 KPUA(t) HI Hilo 8/14 0923	Tent w/AC u/KWNK KIPA & KHLO in well at this time (TH-CA)
690 CBKF1 SK Gravelbourg	8/5 0353 Presumed w/ FF interview prgm u/XECS. XETRA off. Morning prgm of meditative mx hr'd later.. maybe CBF??? (TH-CA)
830 KIKI HI Honolulu	8/19 0518 Fair signal PSA's. OLD format (JW-OR)
850 KHLO HI Hilo	8/18 0436 Fair w/ C&W, ID "Big Island KHLO" o/u KOA w/TLK. (JW-OR)
850 KHLO HI Hilo	8/14 0918 Good w/ C&W, Ron Thompson DJ w/ "Big Island favorites from KHLO" (TH-SDB)
870 KA1MT HI Honolulu	8/14 0926 Tent o/KIEV w/ REL Needed for f/up (TH-SDB)
930 KRKY CO Granby	8/14 0703 Fair w/KKJH. CNN Nx & SNN AC format. (TH-SDB)
990 KSVP NM Artesia	8/14 0731 Fair thru XECL OC. Promos, ID's, PSA's "Artesia's very own KSVP" Killed by XEER s/on a minute late at 1133 NM #44. (TH-SDB)
995 KFRP CO Englewood-Denver	9/1 0130 Tremendous spurs found here and on 1305 Strong enough to splash on KRKS 990. (WH-CO)
1040 KLHT HI Honolulu	8/14 0916 Good w/REL Off back of E wires. (TH-SDB)
1050 KORE OR Springfield	8/18 0356 Fair w/USA Nx, full ID w/XED Good for 161 watts (TH-CA)

- 1230 KQIK OR Lakeview
8/31 0704 Fair on top ending Ae Nx to Unistar C&W.. promo's and lcl ID "Quick Country KQIK". (BH-WA)
- 1240 KPOD CA Crescent City
8/31 0742 Atop as usual w/ C&W. "KPOD" ments lcl ads. (BH-WA)
- 1240 KPOD CA Crescent City
8/5 0339 Briefly o/KSUE/KSMA/KLFE w/C&W. Ments 24hr, "K Pod" slogans Rare w/KSON off. (TH-CA)
- 1240 KSUE CA Susanville
8/5 0257 Fair w/NOS. Sx promo, ID's & promos. Ap Nx on hr. S/off 0307 w/ Instru SSB. Sked 0800-0308. KSON off. CA #231 (TH-CA)
- 1240 KELK NV Elko
8/5 0321 SNN Nx, SID to OLD KSON off Rare. (TH-CA)
- 1270 KZZX NM Alamogordo
8/13 0757 Fair thru XEAZ w/SMN C&W. Legal ID and SNN Nx. (TH-SDB)
- 1300 KMPS WA Seattle
8/14 0715 Fair off back of SE wire Farm report, ID and C&W Mx. //FM. (TH-SDB)
- 1360 KZIQ CA Ridgecrest
9999 9999 Poor thru KPOP w/ AC/OLD ID on Hour. Ments 104.9 FM. Have KLOA & KZIQ swapped FM's? CA #232 (TH-SDB)
- 1490 KRUI NM Ruidoso Downs
8/16 0357 Fair w/ New C&W format "We've got just what you're looking for More Country less Talk, KRUI" (TH-CA)
- 1520 KFXX OR Oregon City
8/31 0729 Good as usual w/ "KSL time is 10 59"!!! Turned out to be a replay of the 8/29 BYU FB post game at this odd hour, w/ Utah ads! (BH-WA)

Midday to Midnight

- 630 KWRO OR Coquille
8/29 2013 Fair w/ads, lcl wx. into OLD "AM 630 KWRO" (JW-OR)
- 940 KWBY OR Woodburn
8/29 1948 fair w/ C&W, lcl ads. ID "Cowboy Country" (JW-OR)
- 1090 KNCR CA Eureka
8/29 2229 Fair w/ OLD, ID o/u KING w/TLK (JW-OR)
- 1320 KUTR UT Salt Lake City
8/29 2355 Good w/ ID and Mutual Nx (JW-OR)
- 1590 KDJS MN Willmar
8/23 2226 Male Ann giving PO BOX for "Red Baron" contest. Call ID...lost to QRM MN # 29 (0W-CO)
- 1590 KLLL TX Lubbock
8/23 2235 Lcl Ads; YL w/Ticket giveaway for Eddie Raven Concert "Country for the 90's" // 96.3 FM. Fair w/ KRYX sloop (0W-CO)

UNID

- 1340 UNID
8/17 0325 C&W w/ calls like KCIK or KPIK Female Announcer. KCEM hr'd earlier w/C&W & male DJ (TH-CA)

TIS

- 530 WNPV394 CO Georgetown
Noted w/ tape loop about Big Horn Sheep wildlife viewing area Colorado Div of Wildlife promo's (RH-CO)

- 530 TIS CO Breckenridge
Noted w/ Tourism loop w/ various activities in the area. No call given. (RH-CO)
- 530 WNED2844 WA Moses Lake
7/28 1802 Saw a highway sign in Moses Lake to tune to 530 "Highway Advisory Radio" w/ various ments for attraction and services. Call sounded like WNED2844, which probably has one extra letter or number in it (BH-WA)
- 530 WNR428 CA Oceanside
8/23 2210 New station in w/ CA-78 HAR info Similar but not w/ others HAR stations. (TH-CA)
- 530 TIS CA Unknown
8/5 0200 Male w/ ments I-405. Possible needed Mission Viejo-El Toro HAR. (TH-CA)
- 1610 TIS CA UNK
8/29 0435 Loop for CA Agriculture Inspection Stations followed by Highway construction advisory south of inspection station Probably in the vicinity of Dunsmuir Poor signal. (JW-OR)
- 1610 TIS CA Malibu (?)
8/23 1945 New, located somewhere between Malibu & US-101. Ments Malibu, Recreation Area, State Park & US-101. Possibly Malibu Creek State Park. Any help from LA area DX'ers!!! (TH-CA)

Contributors!

- (0W-CO) John Wilkins Wheat Bread. CO - R-1000. 4.238' Anguita Loop
(BH-WA1) Bill Hardy E of Spokane. WA - GE Multiband portable
(BH-WA2) Bill Hardy I-90 between Ellensburg & Spokane - Car Rx
(BH-WA) Bill Hardy Aberdeen, WA - FRG-7, Radio West Loop
(JW-OR) Jack Woods Waldport, OR - ICF-2021, Martens Loop
(RH-CO) Rob Harrington On the I-70 Corridor, CO - Car RX
(TH-CA) Tim Hall Chula Vista, CA - ICF-2010, Radio West Loop
(TH-SDB) Tim Hall San Diego, CA - ICF-2010, 800' & 1000' LW DIR E, 1600' LW DIR SE
(WH-CO) Wayne Heinen Aurora, CO - R-390A, TR-7, RW-TRF-655, 4' NRC loop

73
Wayne

The Broadcaster's Guide to DX

A tri-fold guide for use with reception reports explaining DX'ing, how the NRC was formed, and the importance of QSL's to DX'ers. Versions also available in Spanish and French. US\$1.50 for 20. Available from NRC Publications.

International DX Digest

Jim Renfrew
61 Wilcox Street
Rochester, NY 14607-3832

Foreign DX Catches. Times are UTC; for ELT, subtract 5 hours

Welcome to the new 1991-92 IDXD season. Please submit loggings in frequency order, using UTC (PST + 8).

If you are reproducing any of this information in another bulletin, please be sure to credit the original sources as shown at the conclusion of each logging or news item. We would also appreciate a mention of the NRC.

PAN-AMERICAN

- 590 MEXICO XEE, Durango 1025 7/14 SM. Fair w/local KKLD-600 off. Lots of R. ACIR promos. [TRH-CA]
- 590 MEXICO unID 1057 7/14 SM. XE anthem u/XEE. Male DJ at 1100 mentioned "---- de la frontera". Mx and rooster crows. This almost has to be needed XEFD. [TRH-CA]
- 620 MEXICO XEBU, Chihuahua 1100 8/14. Back to 24 hr sked. [TRH-CA]
- 680 MEXICO XESON, Hermosillo 8/13. Stn is now 24 hr w/R. ACIR programming. [TRH-CA]
- 690 MEXICO XETRA, Tijuana 0805 8/5 MM. QC, then off. [TRH-CA]
- 690 MEXICO XECS, Manzanillo 8/5 MM. Excellent signals w/"La Grande de Manzanillo" slogans, excellent full ID except for the power, which was unintelligible (rats). [TRH-CA]
- 710 CUBA R. Rebilde 0605 9/1. Strong signal // 3365 SW. [JR-NY]
- 730 MEXICO XEX 0610 9/1. Very powerful signal, ID as XEX, no sign of CKAC, though Canadian Star Country net in null (CKDM7?). [JR]
- 740 MEXICO unID 1056 8/11 SM. This night and every night since. Stn w/AC, "R. Energia" slogan, 24 hr NSP w/o local mentions. Probably a schedule and slogan change for XEQN, but can't confirm it as of yet. [TRH-CA]
- 740 CUBA R. Rebilde 0602 9/1. Usual code ID on what I presume is normally a R. Progreso outlet during day and evening. Nice to have the CBL silent period back. [JR-NY]
- 780 VENEZUELA R. Coro 0646-0819 8/10. In very well w/WBBM off, w/IDs, TCs, mx, male DJ, sports promo. [JR-NY]

- [TRH-CA] Tim Hall, Chula Vista CA; Sony ICF-2010, Radio West Loop
[TRH-CA] Tim Hall & Neil Kazaross at San Diego beverage site, Poway CA, ICF-2010, 800' & 1000' aimed E, 1600' aimed SE Jim Renfrew, Rochester NY; HQ-150, SM-1

STATION NEWS

- CUBA: Arnie Coro of Radio Habana hinted on the 9/1 "DXers Unlimited" that Radio Rebilde may be doing some MW tests this fall. Tune into his program Sundays and Wednesdays at 0140, 0340 or 0540 UTC on 11950 kHz for the latest information. I believe he got the idea from reading about CPC tests in a sample DXN that I sent him. By the way, he also announced over the air that a f/u MW report I had sent to him would be verified. Still waiting! [JR]

CONTRIBUTORS

- [TRH-CA] Tim Hall, Chula Vista CA; Sony ICF-2010, Radio West Loop
[TRH-CA] Tim Hall & Neil Kazaross at San Diego beverage site, Poway CA, ICF-2010, 800' & 1000' aimed E, 1600' aimed SE Jim Renfrew, Rochester NY; HQ-150, SM-1

TRANS-ATLANTIC & TRANS-PACIFIC LOGGINGS IN DX NEWS VOLUME 58 (1990-91)
(compiled by Jim Renfrew, National Radio Club IDXD Editor)

This is a review of international loggings from Volume 58 (1990-91) of the National Radio Club's DX News. The emphasis here is on Trans-Atlantic (TA) loggings and Trans-Pacific (TP) loggings from East Coast North America (ECNA) and West Coast North America (WCNA). Caribbean, Central America, Colombia and Venezuela loggings from ECNA are omitted, as these are relatively common. You will note that TPs from ECNA and TAs from WCNA were reported last season.

Dale Park's Hawaii loggings are included in the WCNA list, although these references are underlined. Brian Vernon's unique loggings from the northern end of Baffin Island in Canada's Arctic are shown in a special Arctic North America list.

Many of the loggings submitted were shown as tentative or presumed by the original reporters, especially loggings of "nets". I have decided to include these without any special notation.

Each entry shows the frequency followed by the Volume 58 issue number that the logging appeared in. If you do not have the back-issues referenced here (with program descriptions, times, etc), you may still make good use of this list in determining the most likely targets from your location during the coming season. A general (very general, as there are always exceptions!) rule of thumb is that TAs can be heard best at your sunset and European/African sunrise, and that TPs can be heard at your sunrise.

EAST COAST NORTH AMERICA

ALGERIA	153 (21/23), 531 (16), 891 (5/10/16/18/21/23/24/25/27/29), 981 (18)
ALBANIA	1395 (16), 1458 (29)
ARGENTINA	870 (21)
AUSTRALIA	1548 (5), 1620 (5), 1629 (5)
AZORES	693 (21), 1566 (23)
BELGIUM	927 (24), 1512 (23)
BULGARIA	1125 (23/29)
CANARY IS.	621 (21), 837 (18/23), 882 (5/9), 1098 (5/18/25/27/29)
CZECHOSLOVAKIA	1098 (9)
DENMARK	1062 (18/23)
EGYPT	1107 (9/23)
ENGLAND	198 (21/24), 882 (5/16/18/21/23/24), 909 (16/18), 1053 (9/24), 1089 (5/18/23/24), 1215 (18), 1458 (29), 1548 (23)
FRANCE	162 (21/23), 216 (21/23), 675 (9/21), 711 (21), 837 (5), 864 (23/24), 945 (23), 1161 (16), 1377 (23), 1467 (25), 1557 (5/22/24/25)
GERMANY	183 (21/23), 756 (18/23/24), 783 (14), 873 (14/18), 882 (14), 1017 (5/9/14/18/24), 1044 (18), 1539 (5/24/29), 1575 (23/24), 1593 (5/21/23/24/25/28/29)
IRELAND	252 (23), 567 (16/23), 612 (23)
ITALY	846 (5/18)
LIBYA	1251 (5/29)
LUXEMBOURG	234 (21/23)
MAURETANIA	1349 (16/29)
MONACO	1467 (10)
MOROCCO	207 (21), 612 (5), 1044 (16/23), 1116 (23), 1325 (9)
NETHERLANDS	675 (14), 747 (5/24), 1008 (18)
NORWAY	1314 (5/14/16/18/23)



POLAND	225 (21)
PORTUGAL	666 (5/14/16), 783 (5/9/18/23), 1035 (5/18), 1062 (5/23)
ROMANIA	756 (14), 855 (14)
SAO TOME	945 (9)
SAUDI ARABIA	549 (9), 1521 (5/14/16/18/29)
SENEGAL	765 (5/9/14/16/18/21/23/24/29)
SPAIN	585 (5), 684 (5/9/21/28), 738 (5/18), 774 (5/8/9/16/18/23/24), 792 (5), 837 (18/23), 855 (5), 873 (5/24), 999 (5), 1098 (18/29), 1107 (5/18/23/24/25/27/29), 1134 (16/23), 1179 (29), 1197 (25), 1296 (9), 1503 (24/29), 1521 (29), 1575 (23/24/25/27/28/29), 1584 (5/24/25/27/28/29), 1602 (29)
SWEDEN	1179 (23)
SWITZERLAND	765 (14), 1566 (14/23/24/25)
TUNISIA	1566 (9/14)
VATICAN	1530 (5/18/23/28/29), 1611 (5/18/21/28/29)
YUGOSLAVIA	1125 (18/23/29), 1134 (4/9/14/16)
TP UNID	747 (5), 1566 (5), 1575 (5), 1593 (5)
WEST COAST NORTH AMERICA	
AMERICAN SAMOA	648 (2)
RADIO SANTA FE	
ALBANIA	1215 (18), 1395 (18)
ANGUILLA	1610 (9/10)
ANTIGUA	1165 (13)
AUSTRALIA	531 (1/29), 540 (2), 576 (7), 594 (29), 603 (2), 612 (29), 621 (4), 630 (10), 639 (2/29), 702 (24/29), 774 (4/24/29), 792 (2/29), 828 (29), 837 (28/29), 855 (4/24), 864 (29), 873 (29), 927 (29), 1008 (29), 1026 (29), 1098 (29), 1161 (12), 1206 (29), 1215 (29), 1233 (2), 1332 (29), 1413 (29), 1476 (29), 1548 (18), 1575 (29), 1620 (24/29)
BAHAMAS	526 (24), 810 (6/26)
COLOMBIA	770 (19), 810 (9), 890 (13)
ECUADOR	830 (14), 890 (6/7/9)
EL SALVADOR	770 (2)
FIJI	774 (2/29), 891 (24/29), 927 (29)
FR. POLYNESIA	738 (1)
HAWAII	830 (29)
JAPAN	666 (24), 774 (11/24), 828 (24), 1260 (2/2), 1296 (2), 1440 (2)
MALAYSIA	1475 (27/28/29)
MARSHALL IS.	1224 (2/12)
MICRONESIA	1449 (1)
NETH. ANTS.	800 (9)
NEW ZEALAND	756 (29), 783 (28), 828 (28), 837 (28/29), 864 (29), 882 (29), 963 (2), 1008 (2/29), 1026 (28/29), 1035 (28/29), 1044 (28/29), 1053 (28), 1080 (2/2), 1116 (28), 1143 (28), 1152 (28), 1161 (28), 1206 (2), 1287 (4), 1503 (28), 1530 (1), 1615 (28)
NICARAGUA	620 (8), 750 (8)
NORTH KOREA	657 (24)
SENEGAL	765 (24)

OCX4J 1.510 Khz. Onda Media
CCX4E 4.775 Khz. Onda Corta
CCW4A 99.3 Mhz. FM Stereo



SOUTH KOREA 972 (6/7), 1134 (6), 1566 (1/27/28)
 THAILAND 1575 (1/2)
 TONGA 738 (1), 1017 (29)
 TUVALU 621 (1/10)
 USSR 153 (24), 189 (24), 216 (24), 243 (24), 279 (24)
 VENEZUELA 780 (19)
 YUGOSLAVIA 1134 (18)
 UNID TP HETS 612 (18), 693 (18), 702 (18), 729 (18), 738 (18/21), 774 (18),
 828 (19), 846 (18), 855 (18), 891 (18), 1026 (18), 1107 (18),
 1494 (29)
 UNID BEACON 831 (29)

ARCTIC NORTH AMERICA

ALASKA 720 (6)
 BANGLADESH 693 (10)
 CHINA 540 (5), 594 (5), 639 (6), 756 (5/7), 1035 (5), 1053 (10),
 1107 (10), 1206 (7), 1215 (6), 1521 (9)
 CUBA 1180 (9)
 DENMARK 245 (9)
 FAERDE IS. 531 (9)
 GREENLAND 900 (10)
 HUNGARY 1188 (13)
 ICELAND 207 (5), 738 (9)
 INDIA 1071 (10)
 IRELAND 252 (9)
 IRAQ 1435 (16), 1445 (16), 1449 (5/6)
 IRAN 1431 (5), 1435 (16), 1445 (16)
 JAPAN 540 (13), 594 (13), 666 (10), 702 (13), 747 (6), 774 (6), 828
 (5/6), 1053 (13), 1278 (13), 1332 (13)
 NORTH KOREA 864 (5), 999 (5)
 NORWAY 153 (9), 216 (5)
 OMAN 1413 (7)
 PHILIPPINES 1143 (5/9/10)
 POLAND 738 (5)
 SOUTH KOREA 558 (5), 891 (6), 1053 (13)
 SVALBARD 1485 (6)
 TURKEY 180 (13)
 UAE 1314 (7)
 USSR 162 (5), 171 (13), 180 (7), 198 (9), 270 (6/13), 594 (5), 612
 (6), 630 (7), 639 (6), 648 (13), 666 (7), 693 (9/10), 774 (7),
 783 (7), 891 (6), 1026 (6), 1053 (13), 1080 (13), 1377 (9),
 1386 (7)
 UNID TP 1332 (10), 1350 (10)



THE
COUNTRY HOUR
STATEWIDE AT NOON

THE COUNTRY'S FINEST HOUR

Radio Mil
 XEDY 1000 KCS O. L. XEDY 6010 KCS O. C.
 10,000 WATTS 2,500 WATTS
 AYUNTAMIENTO IDI
 TEL. 12-87-83 • 10-38-69 • 12-10-00
 MEXICO D. F.

FOMENTO DE RADIO, S. A.

FM DX
Digest

Todd Brandenburg, KA0KAN

1337 SW Woodhull, #6
 Topeka, KS 66604

DX on the FM band, from April through September

Greetings all! Per discussions with Mike and Paul, we will run this column once again in October, and everything heard by 11:59 pm local time September 30 will be accepted. OK, if there is good E-skip I may let early morning October 1 slide by. A few people have mentioned extending the column further, but we are not out to overrun WTFDA, and I don't have time during school anyhow.

If you use my address from an older issue, your letter will still find me since Silver Lake is my parent's address. '73's for now.

Mike Hardester, PO Box 8159, Camp Lejeune, NC 28542-8159

8.29.91 0535-0545 ELT

98.7: Local WKOO Jacksonville noted with RARE SP. One station noted w/promo for a business in Virginia Beach (suspect WNOR-FM), and a second, predominant, station w/ID as 'KISS 98.7' and into spot for 'Hardees in East Mi.. (or Miss...). Into rock mx. WKOO back on at 0545, in mid-spot, w/o mention of being off.

8.30.91 1805

106.5 WSFL-FM Bridgeton- Responding (a bit late) to an ad in the local newspaper to tune in, I tuned in to find stn BACK ON AIR with recurring promo of 'The new WSFL: Eastern NC's home of rock and roll', and true to its promo, that's the format.

9.2.91

96.3 WRHT-FM Morehead City / 103.7 WHTC-FM Williamston- Again, in response to a newspaper promo, tuned into the stns to them simulcasting with a CHR/ Top 40 format. No idea if they simulcast at night; WHTC's signal is poor here during the day, and non-existent at night.

Each of these items was heard on my truck radio, and having no tuner at home, I haven't checked further. Hope the info may be of value to someone. (Thanks for the help, Mike. NC is fairly common in E-skip season here in KS -trb)

Russ Edmunds, WB2BJH, 753 Valley Rd, Blue Bell, PA 19422-2052

Nissan car radio/ whip

Poor ex since last report. Here's what I have:

8.6.91 Tropo

0700 90.5 WDQJ PA Pittsburgh- out of NPR pgm w/ long ID.

0750 88.1 WRGN PA Sweet Valley- w/ 'Biblephone' pgm, with what appeared to be a religious 'trivia' game o/u WJHU.

0808 107.9 WDSY PA Pittsburgh- w/ traffic report, ID, then rock.

8.7.91 Tropo

0735 88.7 WCID NY Friendship- starting REL pgm w/ promo and request for calls.

1325 88.9 unID- From classic rock to current hits, we're WPLC, FM 88.9' hrdr here. Was stereo, but any phonetic equivalent of the call still doesn't match up with anything at all likely. Only 'short' tropo this day/ o/u WQSU/WFRS. Have had what may have been this twice since under similar ex.

8.15.91 Tropo

0700 96.7 WSTX NY Port Jervis- Promo, nx, ID, sx (?) - trb).

1754 92.9 WFOG VA Suffolk- Ad for liquidating firm, traffic and ID.

Russ Edmunds- on business in Macon, GA
 Delco car radio and whip.

8.28.91 Tropo

0718 106.9 WMIT NC Black Mountain- w/ REL and quiz w/ phone 704-669-3477 in 107.1-WYGO sloop.

0725 107.5 WYHY TN Lebanon- w/ 'Y-107 Radio Zoo' pgm, w/ ROK, ID and CST TC.

0733 102.5 WMYI NC Hendersonville- w/ ROK, ad for store w/ various locations in western NC and SC, ID & 'Y-102.5'

0746 107.7 WIVK TN Knoxville- w/wx, TC, ID u/local 107.9-WPEZ sloop.

1919 95.7 WXRC NC Hickory- w/ ROK, ID.

1921 96.5 WDOD TN Chattanooga- C&W, ID, 'Susie Winthrop Show', 'Country 96.5'.

1930 97.5 WEZK TN Knoxville- w/ MOR- lite rock and ID, u/WCOS.

2055 89.3 WLFI SC Greenville- 'His Radio', 'Love-89' in promos in REL pgm.

2100 91.1 WYFG SC Gaffney- ending REL syndicated pgm w/ ID and promo.

2105 91.7 WTBI SC Greenville- ending nx w/ ID.

8.29.91 Tropo

2079 88.9 WFSQ FL Tallahassee- w/ nx, ID, tc.

0747 106.7 WJCB SC Orangeburg- w/ MOR & ROK, 'B-106.7' and ID.

8.30.91 Tropo

0706 107.5 WKQB? SC St. George- never hrdr actual call, but this stn is callin itself 'Sunny 100' or 'Sunny 108' (I heard both), w/ ROK and several lcl ads.

0717 103.1 WTHZ FL Tallahassee- w/ promo, 'Mix-103.1' and ROK.

0728 104.1 WGLF FL Tallahassee- w/ ROK and 'Gulf-104', then full ID o/u WYAI.

**The All New
Powerful Force**

in

**Eastern
North Carolina**

**ONLY
CHR/TOP 40
RADIO
STATION**

**HOT 104
THE HOT MUSIC STATIONS
SUNNY 96
JACKSONVILLE
FOR YOUR
GREAT RESPONSE**

For Beginners

Jack Woods - P. O. Box 1003
Waldport, OR 97394-0514
Mike Hawk - 10212 P St.
Omaha, NE 68127-2130

Information and advice of interest to inexperienced DX'ers

There is nothing more rewarding after hours of listening, getting up at 2:00 AM, and making target lists than getting a QSL from a half-way-around the world station. For some reason though, QSLing today is much tougher than in years past. Many of you have noticed this trend. This article will look at how to get a verification of reception, and some of the possible causes for stations not replying as much as they once did.

First, to get a verification, you need a list with station addresses. The NRC AM Radio Log is ideal, and everyone should have a copy of it. When you write your reception reports, follow these rules: the report should be well-written and easy to read. Use a pen and write neatly. Have your report in good order, and proof-read it. You need to include how strong the station's signal was, and which stations were interfering with the signal. Remember, reception reports were originally used to help the engineer with his transmitter and antenna. The reports would let him know how the signal was getting out. You need to include signal information. The length of the report depends on what was heard. Broadcasters usually say that 15 to 30 minutes is good, but if you say that you heard Larry King for 30 minutes, that doesn't prove anything. Several stations could have Larry on at that time, so the staff would be reluctant to verify reception. Ten minutes can be enough when you give details such as DJ's names, local commercials, complete IDs word for word, and others. Other national programs, such as Talknet, are commonly heard. If this program is included in your report, mention which TalkNet, such as Bruce Williams or the Dolens. If you hear a national news broadcast such as ABC, try to identify which ABC network it is, such as the ABC Information Net. If you do include a national program in your report, try to include other details. Reports of local news events can sometimes help. If you hear an ID with a slogan, that reported word-for-word is good proof. An example is KLUC-1140, whose slogan is "The Number One Hit Music Station". The CE said that is all it took for a verification, since they have that slogan trademarked. Music is OK to an extent, but song titles are not. Stations seldom log the titles of popular music played. If the format is uncommon, such as polkas or marches, that can help.

Write something about yourself, especially if you have something in common with the station. An example would be if you know someone who works at or if you work at a radio station. You might want to mention if you ever stopped at the town where the station is located. The NRC has "The Broadcasters' Guide To DX" which is a little booklet telling what DX is and why people DX. This is good to send along, especially to the smaller stations.

I have done an informal study as to why stations don't verify as often as in the past. One engineer said "Perhaps the low return rates are the result of fewer full-time engineers at the stations, and the other personnel who get the reports do not get as excited about it". Another CE said that stations get a vast amount of mail, and accidentally overlook some of the mail. One said that over 80% of the reports that he receives are poor. He said that NRC, IRCA, and WTFDA members send better reports than most, but some are still bad. Send a "thank you" postcard if they do reply.

Since my return rate was poor, I tried writing to other employees to see if the return rate would improve. I found that Chief Engineers responded most with General Managers second, followed by Program Directors. When you send a report, send first to the verification signer listed in DXN or the NRC Log. Next, send to the CE if the verifier signer was not the CE. On the follow-up reports, try other employees including the GM, PD, or even the owner. Wait at least a month between follow-up reports.

A follow-up report is just a copy of the original report. You may want to include a note saying that the original report must have been lost in the mail. Don't imply that the station received it but didn't get around to answering. Always be polite and considerate when sending reports. Remember that the station is under no obligation to reply to you. After a couple of follow-ups, if you haven't received a reply, you may want to try a self-prepared QSL card. Provide a space on the card for the employee's signature, and include date, time, frequency, and the station's call letters. The self-prepared cards can be simple, or elaborate with drawings and the like. For all reception reports, include return postage. Follow-ups and prepared cards improved my return rate from 40% to 65% and it is still rising. Sending follow-up reports is a vital part of QSLing.

Another way to get a verification is by sending a tape recording of what you heard. KVGB told me that they normally only verify tape recordings, unless the written report is extremely detailed.

Read the articles in "Getting Started in Medium Wave DXing" on reception

reports if you haven't done so. These have many good ideas from people who work at a radio station. Also, there are some reprints available in the NRC Product Catalog.

QUESTION Why do stations sign on and off at different times?

Stations sign on/off at different times because the sun rises and sets at different times. These stations are licensed to operate in general during daylight hours when their signal will not interfere with some other "higher priority" station on the same frequency. You can tell approximately when stations will sign on/off using the Sunrise/Sunset maps.

QUESTION I hear the term "aurora conditions" a lot. What is it?

The World Book Encyclopedia dictionary defines "aurora" in part as follows: "The aurora is a luminous atmospheric phenomenon due to the impact of streams of particles from the sun on the upper regions of the earth's atmosphere". That definition applies in part to the auroral conditions known to DXers. The same stream of charged particles that cause the northern lights creates a zone in the upper atmosphere that absorbs medium-frequency radio waves. As the stream of particles from the sun (the "solar wind") varies in intensity, the signal-absorbing zones which form near the earth's poles, vary in size. At times, in North America, the signal-absorbing zone is large enough to reduce the sky wave signals from northern radio stations, allowing DXers located to the south to hear southern stations which cannot usually be heard. This is the "auroral condition" for medium-wave reception. If the northern lights are not normally visible at your location, their becoming visible is a good indication of auroral conditions. Also, a prediction of a major solar flare or magnetic storm is a prediction of auroral conditions. In parts of the United States, Caribbean and Central/South American stations are commonly heard during auroral conditions.

Mike and Jack

LIL-3 ... By Dallas Lankford

LIL-3 is a new phasing circuit for generating cardioid patterns by combining the signals from a long wire and a loop antenna. It was designed specifically for use with an 80 foot inverted L antenna and the two foot air core high dynamic range balun loop described in my article "High Dynamic Range Balun Loops." It may work well with other long wire antennas and other loop antennas, but I make no claims in that regard. The inductors L1 and L2 may be any reasonably high Q inductors, such as Mouser chokes # 43RH104 and 43HN475. I have also used a Radio Shack 100 uH choke, # 273-102, and a home brewed 50 uH choke made by removing the wire from a Radio Shack # 273-102 and winding 38 turns of # 26 enameled copper wire on the choke form, close spaced. The switch S is a SPDT toggle switch, which determines the tuning range. While testing the breadboarded version of LIL-3, I found that cardioid patterns could not be generated throughout the entire MW band with a single inductor and 660 pF capacitor. I chose to switch in additional inductance because that provides a wider two band tuning range than switching in additional capacitance. For nighttime signals, in the High range a cardioid pattern can be generated from about 920 KHz to beyond 1600 KHz, while in the Low range tuning is from below 540 KHz to about 1000 KHz. The resistor R2 is not required for use with the balun loop, and should only be included if you plan to try the phasing unit with other loop antennas. The resistor R1 is a 10 K ohm linear composition potentiometer, and should be a high quality 2 watt mil spec type. You can use a Radio Shack pot, but it will not last long before it develops scratchiness. For R2 try 10 K ohms (the correct value will depend on your loop). The tuning capacitor C should be a straight line frequency air variable of good quality, cf. my article "What's Wrong With Present-Day Loop Antennas."

LIL-3 was developed because the amplified balun loop described previously had excessive loss when used with LIL-1. LIL-3 is similar to the phasing circuits described in "LSCA-1" by Ron Schatz and "A Loop/Longwire Combined Antenna" by Paul Swain. But there are important differences from those two circuits. Schatz's circuit used a single inductor instead of the two band parallel LC tuned circuit I used in LIL-3. The nulls generated by LSCA-1 are neither as easy to generate nor as deep as the nulls obtained with LIL-3. Swain's circuit used a wide range variable inductor (in place of my switched L1 and L2), but he did not describe the wide range inductor in enough detail to reproduce it. Neither of them used the trifilar transformer.

Sturdy construction should be used when building LIL-3. The 660 pF air variable capacitor should not be a flimsy miniature air variable. No reduction tuning is needed for the air variable capacitor C of LIL-3, which makes it simpler to build than LIL-1. However, a dual speed 6:1/30:1 Jackson Brothers planetary vernier drive must be used for tuning the high dynamic range balun loop. The components of LIL-3 should be mounted inside a metal box. As I said before, R2 should not be used unless you want to try LIL-3 with other loop antennas. Note that the capacitor C must be isolated from ground and from the tuning knob. I used a flexible insulated coupler and panel bushing to bring the shaft out to the tuning knob.

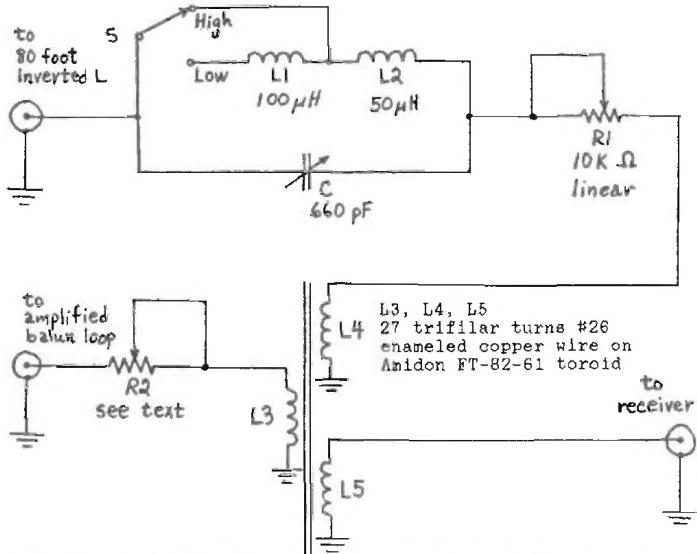
To generate a cardioid pattern for nighttime signals, set R1 for maximum resistance, C for minimum capacitance, and S for the desired tuning range. Point the loop at a strong signal (maximum pickup). Tune the signal so that peak response is at the center of the JB 30:1 range.

Detune the signal slightly to one side (about half the 30:1 range). Slowly adjust R1 and the loop tuning until a dip is found (keeping the loop tuning on the same side of loop tuning peak). If no dip is found, detune the loop to the other side of peak, and repeat the procedure. When a dip is found, make the dip as deep as possible using R1 and the loop tuning (there is some interaction between controls). Finally, use the LIL-3 tuning capacitor C to make the dip deeper. The effect of C is quite subtle. As C is tuned away from minimum capacitance there will normally be little effect on the dip. However, at some point the dip will suddenly become much less deep (signal level will increase sharply). The deepest dip (null) will occur just before this point. If you are not observant, you will not notice any change in dip depth. After the correct initial setting of C is found, readjust R1, loop tuning, and C for the deepest possible dip. Finally, rotate the loop through 180 degrees to confirm that you have a cardioid pattern. If not, go through the adjustment sequence again. With practice, it will become easier to generate the cardioid pattern. For nighttime signals the dip (null) depth will often need to be readjusted from time to time. Long term stability of the null varies widely from one signal to another, and may be as short as a few seconds to as long as 30 minutes. Lower frequency signals tend to have better long term stability.

To generate daytime cardioid patterns, follow the same procedure above, but it may be necessary to start with C at some value of capacitance other than minimum capacitance. If minimum capacitance does not work, then try 10% capacitance, and if that does not work, try 20% capacitance, and so on.

Sometimes a deeper null can be obtained with the loop rotated through 180 degrees. A phase reversing switch could be added for this purpose, but it is easier to rotate the loop.

There is no LIL-2 because LIL-2 was identical to LIL-3 except for the parallel LC tuned circuit. LIL-2 actually worked quite well, except that null depths were not quite as deep as I expected based on experience with LIL-1. Thus I added the parallel LC tuned circuit to have independent control over the phase shift. Since the loop tuning and R1 alone can generate quite good nulls, the effect of the tuning capacitor C is quite subtle. You might wish to build LIL-2 first (by omitting C and L1 and L2) to gain some experience with a simpler (but not quite as good) phasing circuit.



Facts About NRC's DX Audio Service

The DX Audio Service provides the ONLY monthly broadcast news cassette service to the DX community. Available to anyone anywhere, it is designed to inform the radio listener in a pleasing and informative manner. Many of the announcers on the service are professional broadcasters giving their free time to give the listener the finest service available.

DXAS was started to provide broadcast information, both AM and FM, to the visually-handicapped DX listener. It has evolved into a service which provides useful material to all types of listeners. Many subscribers listen to the tape to and from their place of work while driving.

One-year subscription, subscriber keeps the cassette each month: \$25. Sample copy and back issues of DXAS: \$3.

Cassettes are mailed by First Class mail, on or about the 20th of the month. For information, subscriptions, renewals, sample copies: write to NRC DX Audio Service - P. O. Box 24 - Cambridge, WI 53523-0024. For back issues: NRC Publications.

Musings of the Members

Dave Schmidt

P. O. Box 11502

Wilmington, DE 19850-1502

Times are local per Muse.

Thoughts from NRC members ... the opinions expressed in this column are those of the individual writer and do not necessarily reflect those of the editors, publishers, or the National Radio Club, Inc.

MITCHELL SCOTT PAUL - SUITE 1350, INTERNATIONAL CIRCLE - 900 2nd AVE. S. - MINNEAPOLIS, MN 55402

I'm an attorney in Minneapolis and I've taken up the hobby of DX'ing again after an absence of decades. I'm just horrified at a number of changes that occurred in my absence. First, there are now apparently only 44 sounds in the English language! I'm distressed at how little local programming is out there any more. Between Larry King and Talknet, a lot of what made the hobby so much fun has been chased off the air. Larry's all right, I guess, but its inexorable for a powerful station like WHAM or KCMO to carry him, why blast in to small towns where it's likely being carried anyway? Talknet can be truly frightening, I don't think those pop-psych hosts are very responsible. Thank heaven for stations like WJR & KOA, which have kept local call ins. (Thanks for your first report, Mitchell, we trust we'll hear from you again soon! I'm sure many echo your same thoughts about the lack of local programming on the AM band, I certainly do! -DWS)

BOB GALERSTEIN (WB2VGD) - 118 B GROVE AVE. - MAYWOOD, NJ 07607

Long time no Muse from this 32 year old who has happily spent more than half his life as an NRC member! Since my move from Long Island to suburban Hackensack (1½ miles from the WABC tower), I've been doing more 'recreational' DXing than the 'nail-biting-hours-on-end' sessions. My biggest thing is to tune in the out of town sporting events, which is what got me interested in this hobby and my profession in the first place. Current employment has me producing and announcing for MLB/NHL Productions and blabbing from time to time on Islanders radio. The Isles, by the way, have switched their flagship from WEVD to WPAT. I'm taking a close look at the new Drake R8 receiver. Called them on their 800 number, got the brochure, and phoned them again. The one design flaw with this rig is that the preamp is not operational below 5 mHz. Upon bringing this to the attention of the fellow at Drake on the phone, he said future R8's may have the preamp activated for the BCB and that any unmodified R8's could be returned to the factory for a free upgrade. It seems that the world band receivers on the market today are much better for AM DX and even SW than the general coverage transceivers available. I currently use an ICOM 745 which has a very desensitized AM band. It's useless for DXing with just a longwire and used with the 'Superloop', it's about equivalent with the GE Superadio. But it doesn't have the audio of the Superadio, nor has it the 4 kHz filter that the Drake has. I wonder if anyone has purchased the R8, and if so, has figured out how to activate that preamp? The best DX rig I ever had was the ICOM R70, which I sold when I obtained the IC745, something which I regret to this day. Since the circuitry in the R70 is somewhat different than it's successor, the R71, I wonder if the preamp mod on the '71 makes it as mean a DX machine as it's older sibling. As far as I can tell, the only general coverage transceiver on the market today that does not have a desensitized AM band is the Ten Tec Paragon, which is reported to have suburb audio. Wish I could hear one! Quicky comment on digital broadcasting, this may be a naive question BUT with all the processing that stations put their signals through, would the end result be noticeably different to the listener? Looks as if all the radios Toyota is placing in its autos tune up to 1710 kHz. I just purchased a Corolla and it's suppose to receiver C-QAM stereo, so it's going back to the dealer. If anyone has a copy of DX NEWS V47 #15 dated 2/4/80 for sale, please let me know. These magazines are almost like bibles to me and this one never made it to the mailbox, other than the front & back cover! I really enjoyed the CKLW article. It's just one of the many great items over the years that has appeared in these pages. Since I'm more into TV these days, I use DX NEWS to keep on top of what's happening in AM. The magazine and its contents are superb. Keep up the excellent work guys! 73's (Welcome back, Bob! I may have that copy of DX NEWS your looking for in addition to about the last 15 years worth? Interested?? -DWS)

MARK CONNELLY - 30 WILLIAM ROAD - BILLERICA, MA 01821-6079

First, to answer my own question, PJB-800 & Radio Paradise-825 are still around. I noted them while on a recent trip to Cape Cod. So the reason they haven't been noted here (90 miles NW of the Cape) must just be below normal Caribbean propagation. A bright spot here has been summertime TA DX, far better this year than in many other summers. Mid June featured startlingly loud signals from Vatican - 1530 & 1611. On 7/17, a great high end TA opening was in full swing. I would rate the best catch as the Sadio-1512 right next to local (50 kW at 8 miles) WSSH-1510. The 1512 Saudi is heard much less than 1521. Phasing 2 LW's reduced WSSH splash to manageable levels. Conditions really ought to be rockin' in October! 1990 was comparatively dull, auroras less spectacular than late March '91 and nothing to compare to this years surprise summer TA DX. I read Richard Eckman's R8 review with interest, it persuaded me to hold off from getting one at least until more reviews float in (or until I can get to operate

(Connelly - con't.) one). I think Al Merriman (one of the most avid builders of my DX enhancing 'boxes') also has an R8. I'm actually more interested in checking into SONY's ICFSW77, the reported successor to the ICF2010. The home QTH receiving situation is amply covered by an H0180A & a Kenwood R600. At W. Yarmouth, I have the old R390A. Getting maximum portable performance for DXpeditions and business trips is of top concern. I like my '2010 and I'd like to see what Sony can do with a 7 year newer model. I'm giving serious thoughts to a long weekend trip to Newfoundland (or maybe Bermuda) within a year. DXers are invited to send me 'target station' lists in case I take either trip. I'm enjoying the technical articles (Lankford, Wraight, et al), it looks like the early 70's "Neilson" era all over again. For those looking for MVAM108 varactor diodes, I have them here, for \$1.25 each including postage. I've also located a source for U310 FET's & mini circuit parts, let me know what you need and I'll get you price/availability quotes. 73's & best DX!

GERRY THOMAS - 3635 CHASTAIN WAY - PENNSACOLA, FL 32504

To answer Mark Connelly's question, PJB-800 & Radio Paradise-825, yes, they are still both audible here. Radio Paradise has never been a pest here but they have been pretty continuously audible since last winter. PJB-800, too, is audible nightly but it seems to be at a reduced level. I don't know if this is due to the transmitter, propagation or the fact that my local WSWL-790 has been AN since January and is probably de-sensitizing 800 kHz. On other matters, I'm sorry to hear that the early reports of the Drake R8 have been a little negative. Personally, I'm willing to put up with a few operating inconveniences to patronize an American company and keep American workers gainfully employed. As I perceive it, the perfect radio has yet to be produced (I could write an article on the shortcomings of the ICOM R71A). At any rate, I'm hoping to purchase an R8 some time this fall (if I can talk my wife out of flying the whole family to NY to attend a wedding - the same price as an R8-hi!). Also, I'm enjoying the resurgence of technical articles of late, they pique interest and promote experimentation, keep them coming! DXing this past month has been virtually nil due mostly to my relocating my den to a new room over the garage. I'll have a lot more space but have been busy restringing antennas and rearranging things but should be ready to go by the time the TA's start rolling in. Speaking of TAs, I like Mark Connelly, noted surprisingly good TA conditions around mid-June with numerous carriers detectable & quite a few stations with readable audio. I didn't notice any improved conditions to the S at all this Spring/Summer. In fact, conditions seemed to be poorer than usual...who can figure? That's about it from here for now, 73s

DAVE SCHMIDT - P O BOX 11502 - WILMINGTON, DE 19850

No, this isn't the column which puts the English language to test, but when your tired it certainly looks that way-hi! This is being zipped off prior to another Dillon, SC trip, the FM (WZNS 92.9) went back on 8/29 but at reduced power until a problem with Ch. 15 (Florence) can be worked out. This should just about be the last trip for a few weeks (I hope, one can only stand driving 195 for so long-hi!). Keep in mind, our deadlines are Saturday's, type-up is generally Sunday/Monday. And we've got a basketfull of reports lined up for next week so look for that in the next exciting DX NEWS!!

IN THE BEGINNING

BY JOHN D. BOWKER

THIS IS THE COMPLETE LIST OF U. S. BROADCAST STATIONS ON THE INDICATED FREQUENCY AS PUBLISHED BY THE FEDERAL RADIO COMMISSION IN 1934. "S" MEANS SHARED; "SH" MEANS SPECIFIED HOURS; "T" INDICATES TRANSMITTER LOCATION; "D" MEANS DAYTIME OPERATION ONLY; "U" MEANS UNLIMITED TIME.

Frequency (kc)	Call letters	Main studio and transmitter location	Power	Time designation
1090, clear...	KMOX	St. Louis, Mo.....	50 kw----	U.
1100, clear...	WPG	Atlantic City, N.J.....	5 kw-----	S.H.
	WLWL	New York, N.Y.....	5 kw-----	S.H.
	KGDM	T-Kearny, N.J.		
		Stockton, Calif.....	250 w....	D.
1110, clear...	WRVA	Richmond, Va.....	5 kw-----	U.
		T-Mechanicsville.		
	KSOO	Sioux Falls, S.Dak...	2½ kw---	L-WRVA ²⁰

The Answer Man

Got a question about radio? Send it to NRC's Answer Man: Russ Edmunds - 753 Valley Rd. - Blue Bell, PA 19422-2052. No question is a dumb question, and Russ will answer all, from basic to highly technical. Watch for the answer in DX News!

Now taking orders for the NRC AM RADIO LOGBOOK 1992 Edition

Containing **verified** heard information on AM Radio Stations in the United States and Canada unlike others.

Price:

\$16.95 US NRC Members
\$17.95 Canada NRC Members
\$19.95 US Nonmembers
\$20.95 Canada Nonmembers

NRC Publications-Europe order your logbook DIRECT through DX-Service, SF-01760 VANTAA, Finland. DEM 41 (46), £14 (16), \$23 (26), FIM 100 (110), for 2nd class postage (airmail), Post Office GIRO account: Helsinki/Finland 450 01-6 or Cash Notes (SEK, FIM). No personal checks, all checks must be drawn in a bank.

ORDER TODAY!

Yes! I want to order the NRC AM Radio Logbook. Please send me _____ copie(s) of the logbook.

Name _____

Address _____

MAIL this order blank with your check or money order to: NRC Publications, P.O. Box 164, Mannsville, NY 13661

PHONE your credit card order to (608) 423-4159, be prepared to leave your credit card number, expiration date and your address if you get the NRC order machine VISA/MC only.



Promote the NRC and DX News and help us grow!

Planning to attend a DX'ers or hobbyist gathering? Include DX News in your plans. Upon request, we'll send you a packet of up to 50 recent DXN's to be given free to attendees. Just send a postcard to NRC - P. O. Box 5711 - Topeka, KS 66605. Packets are sent by Book Rate, so please allow 21 days for delivery. Thanks - and tell your friends that the NRC is on the grow!